



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: de Jong *et al.*
Serial No.: 09/815,981
Customer No.: 24961
Confirmation No.: 7622
Filed: March 22, 2001
For: *METHODS FOR DELIVERING NUCLEIC
ACID MOLECULES INTO CELLS AND
ASSESSMENT THEREOF*
Art Unit: 1636
Examiner: Sullivan, D.

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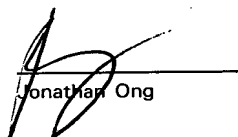
Date of Deposit August 1, 2003

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Jonathan Ong

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE
WITH 37 C.F.R. §§ 1.97-1.98**

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Dear Sir:

Since this Supplemental Information Disclosure Statement is filed after receipt of a first Office Action on the merits for the above-captioned application, the filing fee of \$180.00 is enclosed. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (4 pages) and the cited references are provided herewith in connection with the above-captioned application.

08/06/2003 WABDELRI 00000009 09815981

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U.S.S.N. 09/815,981

d Jong *et al.*

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The documents listed on Form PTO-1449 and provided herewith are in the English language. Hence, in accordance with the requirements of 37 C.F.R. § 1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

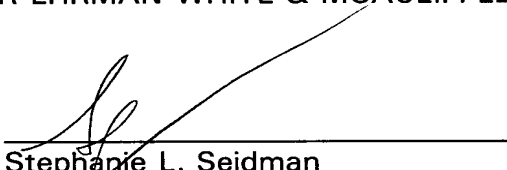
Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

* * *

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,
HELLER EHRMAN WHITE & MCAULIFFE LLP

By:

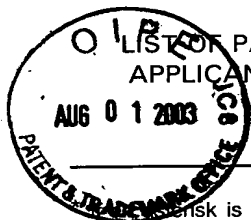

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Attorney Docket No. 24601-416B

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LIST OF PATENTS AND PUBLICATIONS FOR
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When a reference is placed beside the reference number, a copy is NOT provided because the reference was previously cited by or submitted to the PTO in a prior application that is identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1.98(d).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A	✓	Albertsen <i>et al.</i> , "Construction and characterization of a yeast artificial chromosome library containing seven haploid human genome equivalents", <i>PNAS</i> , <u>87</u> :4256-4260 (1990)
B		Alvaro-Gracia <i>et al.</i> , "Cytokines in Chronic Inflammatory Arthritis. V. Mutual Antagonism between Interferon-Gamma and Tumor Necrosis Factor-Alpha on HLA-DR Expression, Proliferation, Collagenase Production, and Granulocyte Macrophage Colony-stimulating Factor Production by Rheumatoid Arthritis Synoviocytes", <i>J. Clin. Invest.</i> , <u>86</u> :1790-1798 (1990)
C	✓	Aupperle <i>et al.</i> , "NF- κ B Regulation by I κ B Kinase in Primary "Fibroblast-Like Synoviocytes", <i>J. Immunol.</i> , <u>163</u> :427-433 (1999)
D	✓	Brown <i>et al.</i> , "Artificial chromosomes: ideal vectors?", <i>TIBTech</i> , <u>18</u> :218-223 (2000)
E	✓	Cavazzana-Calvo <i>et al.</i> , "Gene Therapy of Human Severe Combined Immunodeficiency (SCID)-X1 Disease", <i>Science</i> , <u>288</u> :669-672 (2000)
F	✓	Cocchia <i>et al.</i> , "Recovery and potential utility of YACs as circular YACs/BACs", <i>Nucl. Acids Res.</i> , <u>28</u> (17):e81 i-viii (2000)
G	✓	Dausset <i>et al.</i> , "The CEPH YAC Library", <i>Behring Inst. Mitt.</i> , <u>91</u> :13-20 (1992)

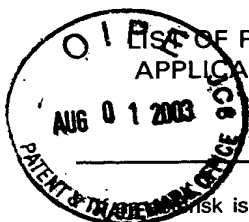
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Title: METHODS FOR DELIVERING NUCLEIC ACID MOLECULES INTO CELLS AND ASSESSMENT THEREOF

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

H	de Jong <i>et al.</i> , "Efficient <i>in-vitro</i> transfer of a 60-Mb mammalian artificial chromosome into murine and hamster cells using cationic lipids and dendrimers", <i>Chromosome Res.</i> , <u>9</u> :475-485 (2001)	✓
I	Foecking <i>et al.</i> , "Powerful and versatile enhancer-promoter unit for mammalian expression vectors", <i>Gene</i> , <u>45</u> :101-105 (1986)	✓
J	Giraldo <i>et al.</i> , "Size matters: use of YACs, BACs and PACs in transgenic animals", <i>Transgenic Res.</i> , <u>10</u> :83-103 (2001)	✓
K	Han <i>et al.</i> , "Development of Biomaterials for Gene Therapy", <i>Mol. Therapy</i> , <u>2</u> (4):302-317 (2000)	✓
L	Hem <i>et al.</i> , "Saphenous vein puncture for blood sampling of the mouse, rat, hamster, gerbil, guineapig, ferret and mink", <i>Laboratory Animals</i> , <u>32</u> :364-368 (1998)	✓
M	Jacobovits <i>et al.</i> , "Germ-line transmission and expression of a human-derived yeast artificial chromosome", <i>Nature</i> , <u>362</u> :255-258 (1993)	✓
N	Kong <i>et al.</i> , "Activated T cells regulate bone loss and joint destruction in adjuvant arthritis through osteoprotegerin ligand", <i>Nature</i> , <u>402</u> :304-309 (1999)	✓
O	Lange-Gustafson <i>et al.</i> , "Purification and Properties of Int-h, a Variant Protein Involved in Site-specific Recombination of Bacteriophage λ ", <i>J. Biol. Chem.</i> , <u>259</u> (20):12724-12732 (1984)	✓
P	Larin <i>et al.</i> , "A method for linking yeast artificial chromosomes", <i>Nucl. Acid Res.</i> , <u>24</u> (21):4192-4196 (1996)	✓
Q	Libert <i>et al.</i> , "Construction of a Bovine Genomic Library of Large Yeast Artificial Chromosome Clones", <i>Genomics</i> , <u>18</u> :270-276 (1993)	✓
R	Lorbach <i>et al.</i> , "Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants", <i>J. Mol. Biol.</i> , <u>296</u> :1175-1181 (2000)	✓
S	Lowry, R., "Two-Factor ANOVA with Repeated Measures on One Factor", http://faculty.vassar.edu/lowry/anova2corr.html (2000)	✓
T	Luo <i>et al.</i> , "Synthetic DNA delivery systems", <i>Nature Biotechnol.</i> , <u>18</u> :33-37 (2000)	✓

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U	Marschall <i>et al.</i> , "Transfer of YACs up to 2.3 Mb intact into human cells with polyethylenimine", <i>Gene Therapy</i> , <u>6</u> :1634-1637 (1999)	✓
V	Miller <i>et al.</i> , "int-h: an <i>int</i> Mutation of Phage λ That Enhances Site-Specific Recombination", <i>Cell</i> , <u>20</u> :721-729 (1980)	✓
W	Mountain <i>et al.</i> , "Gene therapy: the first decade", <i>TIBTECH</i> , <u>18</u> :119-128 (2000)	✓
X	NCBI Nucleotide, Gene Bank Accession No. NC001416	✓
Y	Osborne <i>et al.</i> , "Gene therapy for long-term expression of erythropoietin in rats", <i>Proc. Natl. Acad. Sci. USA</i> , <u>92</u> :8055-8058 (1995)	✓
Z	Palmieri <i>et al.</i> , "Construction of a pilot human YAC library in a recombination-defective yeast strain", <i>Gene</i> , <u>188</u> :169-174 (1997)	✓
AA	Schedl <i>et al.</i> , "A method for the generation of YAC transgenic mice by pronuclear microinjection", <i>Nucl. Acid Res.</i> , <u>21</u> :4783-4787 (1993)	✓
AB	Shen <i>et al.</i> , "A structurally defined mini-chromosome vector for the mouse germ line", <i>Current Biology</i> , <u>10</u> :31-34 (2000)	✓
AC	Sigma Catalog, Biochemicals and Regents for Life Science Research, Molecular Biology, pp. 221, 227, 275, 363, 411, 543, 576, 909 (1998)	✓
AD	Stocum <i>et al.</i> , "Regenerative biology: A millennial revolution", <i>Cell and Devel. Biol.</i> , <u>10</u> :433-440 (1999)	✓
AE	Stocum <i>et al.</i> , "Regenerative biology and engineering: strategies for tissue restoration", <i>Wound Rep. Reg.</i> , <u>6</u> :276-290 (1998)	✓
AF	Takeda <i>et al.</i> , "Construction of a bovine yeast artificial chromosome (YAC) library", <i>Animal Genetics</i> , <u>29</u> :216-219 (1998)	✓
AG	Tao <i>et al.</i> , "Cloning and stable maintenance of DNA fragments over 300 kb in <i>Escherichia coli</i> with conventional plasmid-based vectors", <i>Nucl. Acids Res.</i> , <u>26</u> (21):4901-4909 (1998)	✓
AH	Toye <i>et al.</i> , "A yeast artificial chromosome (YAC) library containing 10 haploid chicken genome equivalents", <i>Mammalian Genome</i> , <u>8</u> :274-276 (1997)	✓

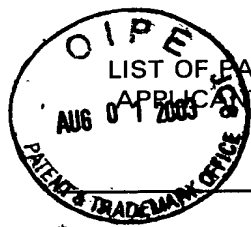
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AI	Tsonis <i>et al.</i> , "Regeneration in Vertebrates", <i>Devel. Biol.</i> , <u>221</u> :273-284 (2000) ✓
AJ	Uherek <i>et al.</i> , "DNA-carrier proteins for targeted gene delivery", <i>Adv. Drug Delivery Reviews</i> , <u>44</u> :153-166 (2000) ✓
AK	Urlaub <i>et al.</i> , "Effect of Gamma Rays at the Dihydrofolate Reductase Locus: Deletions and Inversions", <i>Somatic Cell and Mol. Genetics</i> , <u>12(6)</u> :555-566 (1986) ✓
AL	Wada <i>et al.</i> , "Chimeric YACs were generated at unreduced rates in conditions that suppress coligation", <i>Nucl. Acids Res.</i> , <u>2(9)</u> :1651-1654 (1994) ✓
AM	Zhong <i>et al.</i> , "Zebrafish Genomic Library in Yeast Artificial Chromosomes", <i>Genomics</i> , <u>48</u> :136-138 (1998) ✓

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